

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|-------|------------------|---------|------------------|
| L1 | 0 | 713/180.clas. and (generat\$4 with digital with signature) and (procur\$4 same counter) | USPAT | OR | OFF | 2005/06/30 11:03 |
| L2 | 0 | 713/180.clas. and (generat\$4 with digital with signature) | USPAT | OR | OFF | 2005/06/30 11:03 |
| L3 | 0 | 713/180.clas. and (generat\$4 same digital same signature) | USPAT | OR | OFF | 2005/06/30 11:03 |
| L4 | 0 | 713/180.ccls. and (generat\$4 with digital with signature) and (procur\$4 same counter) | USPAT | OR | OFF | 2005/06/30 11:03 |
| L5 | 85 | 713/180.ccls. and (generat\$4 with digital with signature) | USPAT | OR | OFF | 2005/06/30 11:03 |
| L6 | 0 | 713/180.ccls. and (generat\$4 with digital with signature) and (procur\$4) | USPAT | OR | OFF | 2005/06/30 11:03 |
| L7 | 2 | 713/180.ccls. and (generat\$4 with digital with signature) and (signature adj counter) | USPAT | OR | OFF | 2005/06/30 11:03 |
| L8 | 18 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) | USPAT | OR | OFF | 2005/06/30 12:35 |
| L9 | 0 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (chipcard) | USPAT | OR | OFF | 2005/06/30 11:03 |
| L10 | 0 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) with (chip\$4) | USPAT | OR | OFF | 2005/06/30 11:03 |
| L11 | 0 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) with (chip) | USPAT | OR | OFF | 2005/06/30 11:03 |
| L12 | 1 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) with (card) | USPAT | OR | OFF | 2005/06/30 11:03 |
| L13 | 6 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) | USPAT | OR | OFF | 2005/06/30 11:03 |

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|-----|----|---|------------------------------|----|-----|------------------|
| L14 | 3 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) and (encrypt\$4) | USPAT | OR | OFF | 2005/06/30 11:03 |
| L15 | 9 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) | USPAT | OR | OFF | 2005/06/30 11:03 |
| L16 | 0 | chipcard with digital adj signature. ti. | USPAT | OR | OFF | 2005/06/30 11:03 |
| L17 | 3 | chipcard with digital adj signature | USPAT | OR | OFF | 2005/06/30 11:03 |
| L18 | 0 | ("6662151").URPN. | USPAT | OR | ON | 2005/06/30 11:03 |
| L19 | 1 | ("4825052").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/30 11:03 |
| L20 | 41 | ("4825052").URPN. | USPAT | OR | ON | 2005/06/30 11:03 |
| L21 | 19 | L20 and digital adj signature | USPAT | OR | ON | 2005/06/30 11:03 |
| L22 | 0 | chipcard with (digital adj signature) with document | USPAT | OR | ON | 2005/06/30 11:03 |
| L23 | 1 | chipcard with (digital adj signature) and document | USPAT | OR | ON | 2005/06/30 11:04 |
| L24 | 0 | ("6076162").URPN. | USPAT | OR | ON | 2005/06/30 11:04 |
| L25 | 8 | ("5293029" "5541994" "5659616" "5717759" "5721781" "5768389" "5781723" "5805712").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/30 11:04 |
| L26 | 10 | ("5768389").URPN. | USPAT | OR | ON | 2005/06/30 11:04 |
| L27 | 49 | ("5805712").URPN. | USPAT | OR | ON | 2005/06/30 11:04 |
| L28 | 0 | (chipcard IC smart semi\$9) adj (card dvice) with digital adj signature with document.ti. | USPAT | OR | OFF | 2005/06/30 11:04 |
| L29 | 0 | (chipcard IC smart semi\$9) adj (card dvice) with digital adj signature with document.ab. | USPAT | OR | OFF | 2005/06/30 11:04 |
| L30 | 4 | (chipcard IC smart semi\$9) adj (card dvice) with digital adj signature with document | USPAT | OR | OFF | 2005/06/30 11:04 |
| L31 | 0 | in adj situ with digital adj signature | USPAT | OR | ON | 2005/06/30 11:04 |
| L32 | 0 | in near2 situ with digital adj signature | USPAT | OR | ON | 2005/06/30 11:04 |
| L33 | 0 | chipcard with (without adj external) with (digital adj signature) | USPAT | OR | ON | 2005/06/30 11:04 |

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| L34 | 0 | chipcard with external with (digital adj signature) | USPAT | OR | ON | 2005/06/30 11:04 |
| L35 | 0 | chipcard with dynmical\$3 with (digital adj signature) | USPAT | OR | ON | 2005/06/30 11:04 |
| L36 | 0 | chipcard with dynmical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2005/06/30 11:04 |
| L37 | 0 | chipcard and dynmical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2005/06/30 11:04 |
| L38 | 0 | chipcard and dynamical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2005/06/30 11:04 |
| L39 | 8 | dynamical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2005/06/30 11:04 |
| L40 | 4475 | (chipcard chip-card (chip adj card) (chip near1 card)) | USPAT; EPO | OR | ON | 2005/06/30 11:04 |
| L41 | 4 | ((chipcard chip-card (chip adj card) (chip near1 card)) ((IC smart semi\$9) adj (card derive))) with digital adj signature with document | USPAT | OR | OFF | 2005/06/30 11:04 |
| L42 | 4 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card dvice) with digital adj signature with document | USPAT | OR | OFF | 2005/06/30 12:52 |
| L43 | 99 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card dvice) with digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |
| L44 | 99 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card derive) with digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |
| L45 | 0 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card derive) with external adj digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |
| L46 | 9 | (chipcard chip-card (chip adj card) (chip near1 card)) with digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |
| L47 | 0 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) with (embedded stored) adj digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |
| L48 | 20 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) and (embedded stored) adj digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |

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|-----|-------|--|-------|----|-----|------------------|
| L49 | 9 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) and (embedded stored) adj digital adj signature and document | USPAT | OR | OFF | 2005/06/30 11:04 |
| L50 | 11 | L48 not L49 | USPAT | OR | OFF | 2005/06/30 11:04 |
| L51 | 1 | (embed\$4 stor\$3) near1 digital adj signature.ti. | USPAT | OR | OFF | 2005/06/30 11:04 |
| L52 | 132 | (embed\$4 stor\$3) near1 digital adj signature | USPAT | OR | OFF | 2005/06/30 12:39 |
| L53 | 3 | L52 and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) with document | USPAT | OR | OFF | 2005/06/30 11:04 |
| L54 | 3 | (embed\$4 stor\$3) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) with document | USPAT | OR | OFF | 2005/06/30 11:04 |
| L55 | 29 | (embed\$4 stor\$3) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) and document | USPAT | OR | OFF | 2005/06/30 11:04 |
| L56 | 0 | (embed\$4 stored) near1 digital adj signature with ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) | USPAT | OR | OFF | 2005/06/30 11:04 |
| L57 | 30 | (embed\$4 stored) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) | USPAT | OR | OFF | 2005/06/30 11:04 |
| L58 | 30 | (embed\$4 stored) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9 signature adj device) | USPAT | OR | OFF | 2005/06/30 11:04 |
| L59 | 84251 | ((chipcard chip-card (chip adj card) (chip near1 card)) (IC smart semi\$9) adj (csrd device) signature adj device) | USPAT | OR | OFF | 2005/06/30 11:04 |
| L60 | 0 | L59 with (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |
| L61 | 0 | L59 near5 (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |
| L62 | 4 | L59 and (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |

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| L63 | 4 | ((chipcard chip-card (chip adj card) (chip near1 card)) (IC smart semi\$9) adj (csrd device) signature adj device) and (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |
| L64 | 85 | (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2005/06/30 11:04 |
| L65 | 1 | "6662151".pn. | USPAT | OR | ON | 2005/06/30 11:38 |
| S1 | 0 | 713/180.clas. and (generat\$4 with digital with signature) and (procur\$4 same counter) | USPAT | OR | OFF | 2003/10/24 13:50 |
| S2 | 0 | 713/180.clas. and (generat\$4 with digital with signature) | USPAT | OR | OFF | 2003/10/24 13:50 |
| S3 | 0 | 713/180.clas. and (generat\$4 same digital same signature) | USPAT | OR | OFF | 2003/10/24 13:50 |
| S4 | 0 | 713/180.ccls. and (generat\$4 with digital with signature) and (procur\$4 same counter) | USPAT | OR | OFF | 2003/10/24 13:50 |
| S5 | 72 | 713/180.ccls. and (generat\$4 with digital with signature) | USPAT | OR | OFF | 2003/10/24 13:51 |
| S6 | 0 | 713/180.ccls. and (generat\$4 with digital with signature) and (procur\$4) | USPAT | OR | OFF | 2003/10/24 13:51 |
| S7 | 2 | 713/180.ccls. and (generat\$4 with digital with signature) and (signature adj counter) | USPAT | OR | OFF | 2003/10/24 13:52 |
| S8 | 16 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) | USPAT | OR | OFF | 2003/10/24 13:52 |
| S9 | 0 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (chipcard) | USPAT | OR | OFF | 2003/10/24 13:53 |
| S10 | 0 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) with (chip\$4) | USPAT | OR | OFF | 2003/10/24 13:53 |
| S11 | 0 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) with (chip) | USPAT | OR | OFF | 2003/10/24 13:53 |
| S12 | 1 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) with (card) | USPAT | OR | OFF | 2003/10/24 13:53 |

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|-----|----|---|------------------------|----|-----|------------------|
| S13 | 5 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) | USPAT | OR | OFF | 2003/10/24 15:11 |
| S14 | 3 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) and (storage same device) and (encrypt\$4) | USPAT | OR | OFF | 2003/10/24 15:12 |
| S15 | 8 | 713/180.ccls. and (generat\$4 with digital with signature) and (counter) and (hardware) and (software) | USPAT | OR | OFF | 2004/12/12 16:11 |
| S16 | 0 | chipcard with digital adj signature. ti. | USPAT | OR | OFF | 2004/12/12 16:50 |
| S17 | 2 | chipcard with digital adj signature | USPAT | OR | OFF | 2004/12/12 16:11 |
| S18 | 0 | ("6662151").URPN. | USPAT | OR | ON | 2004/12/12 16:21 |
| S19 | 1 | ("4825052").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2004/12/12 16:22 |
| S21 | 38 | ("4825052").URPN. | USPAT | OR | ON | 2004/12/22 12:35 |
| S22 | 18 | S21 and digital adj signature | USPAT | OR | ON | 2004/12/12 16:29 |
| S23 | 0 | chipcard with (digital adj signature) with document | USPAT | OR | ON | 2004/12/12 16:31 |
| S24 | 1 | chipcard with (digital adj signature) and document | USPAT | OR | ON | 2004/12/12 16:31 |
| S25 | 0 | ("6076162").URPN. | USPAT | OR | ON | 2004/12/12 16:32 |
| S26 | 8 | ("5293029" "5541994" "5659616" "5717759" "5721781" "5768389" "5781723" "5805712").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2004/12/12 16:32 |
| S27 | 8 | ("5768389").URPN. | USPAT | OR | ON | 2004/12/12 16:38 |
| S28 | 45 | ("5805712").URPN. | USPAT | OR | ON | 2004/12/12 16:43 |
| S29 | 0 | (chipcard IC smart semi\$9) adj (card dvice) with digital adj signature with document.ti. | USPAT | OR | OFF | 2004/12/12 16:52 |
| S30 | 0 | (chipcard IC smart semi\$9) adj (card dvice) with digital adj signature with document.ab. | USPAT | OR | OFF | 2004/12/12 16:52 |
| S31 | 4 | (chipcard IC smart semi\$9) adj (card dvice) with digital adj signature with document | USPAT | OR | OFF | 2004/12/22 12:44 |
| S32 | 0 | in adj situ with digital adj signature | USPAT | OR | ON | 2004/12/22 12:36 |
| S33 | 0 | in near2 situ with digital adj signature | USPAT | OR | ON | 2004/12/22 12:36 |

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|-----|------|---|---------------|----|-----|------------------|
| S34 | 0 | chipcard with (without adj external) with (digital adj signature) | USPAT | OR | ON | 2004/12/22 12:39 |
| S36 | 0 | chipcard with external with (digital adj signature) | USPAT | OR | ON | 2004/12/22 12:40 |
| S37 | 0 | chipcard with dynmical\$3 with (digital adj signature) | USPAT | OR | ON | 2004/12/22 12:40 |
| S38 | 0 | chipcard with dynmical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2004/12/22 12:41 |
| S39 | 0 | chipcard and dynmical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2004/12/22 12:41 |
| S40 | 0 | chipcard and dynamical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2004/12/22 12:41 |
| S41 | 7 | dynamical\$3 with (digital adj signature) | USPAT; EPO | OR | ON | 2004/12/22 12:42 |
| S42 | 4245 | (chipcard chip-card (chip adj card) (chip near1 card)) | USPAT; EPO | OR | ON | 2004/12/22 12:43 |
| S43 | 4 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card dvice) with digital adj signature with document | USPAT | OR | OFF | 2004/12/22 12:50 |
| S44 | 4 | ((chipcard chip-card (chip adj card) (chip near1 card)) ((IC smart semi\$9) adj (card derive))) with digital adj signature with document | USPAT | OR | OFF | 2004/12/22 12:53 |
| S45 | 90 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card dvice) with digital adj signature | USPAT | OR | OFF | 2004/12/22 12:52 |
| S49 | 90 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card derive) with digital adj signature | USPAT | OR | OFF | 2004/12/22 12:55 |
| S50 | 0 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) adj (card derive) with external adj digital adj signature | USPAT | OR | OFF | 2004/12/22 12:54 |
| S52 | 6 | (chipcard chip-card (chip adj card) (chip near1 card)) with digital adj signature | USPAT | OR | OFF | 2004/12/22 12:56 |
| S53 | 0 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) with (embedded stored) adj digital adj signature | USPAT | OR | OFF | 2004/12/22 16:54 |

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|-----|-------|--|-------|----|-----|------------------|
| S54 | 19 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) and (embedded stored) adj digital adj signature | USPAT | OR | OFF | 2004/12/22 16:49 |
| S55 | 9 | ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) and (embedded stored) adj digital adj signature and document | USPAT | OR | OFF | 2004/12/22 16:33 |
| S56 | 10 | S54 not S55 | USPAT | OR | OFF | 2004/12/22 16:52 |
| S57 | 1 | (embed\$4 stor\$3) near1 digital adj signature.ti. | USPAT | OR | OFF | 2004/12/22 16:53 |
| S58 | 124 | (embed\$4 stor\$3) near1 digital adj signature | USPAT | OR | OFF | 2004/12/22 16:55 |
| S59 | 2 | S58 and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) with document | USPAT | OR | OFF | 2004/12/22 16:55 |
| S60 | 2 | (embed\$4 stor\$3) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) with document | USPAT | OR | OFF | 2004/12/22 17:04 |
| S61 | 28 | (embed\$4 stor\$3) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) and document | USPAT | OR | OFF | 2004/12/22 17:12 |
| S62 | 0 | (embed\$4 stored) near1 digital adj signature with ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) | USPAT | OR | OFF | 2004/12/22 17:13 |
| S63 | 27 | (embed\$4 stored) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9) | USPAT | OR | OFF | 2004/12/22 17:25 |
| S64 | 27 | (embed\$4 stored) near1 digital adj signature and ((chipcard chip-card (chip adj card) (chip near1 card)) IC smart semi\$9 signature adj device) | USPAT | OR | OFF | 2004/12/22 17:44 |
| S65 | 79918 | ((chipcard chip-card (chip adj card) (chip near1 card)) (IC smart semi\$9) adj (csrd device) signature adj device) | USPAT | OR | OFF | 2004/12/22 18:03 |
| S66 | 0 | S65 with (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2004/12/22 18:02 |
| S67 | 0 | S65 near5 (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2004/12/22 18:02 |
| S68 | 2 | S65 and (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2004/12/22 18:03 |

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|-----|----|--|-------|----|-----|------------------|
| S69 | 2 | ((chipcard chip-card (chip adj card) (chip near1 card)) (IC smart semi\$9) adj (csrd device) signature adj device) and (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2004/12/22 18:04 |
| S70 | 79 | (embed\$4 stored) near1 digital adj signature | USPAT | OR | OFF | 2004/12/22 18:04 |